

Reptile and Amphibian Study At Home Work

We will follow the BSA requirements for the Reptile and Amphibian Merit Badge as described by the Boy Scouts of America. There is a significant amount of at-home work to be done for the class to complete requirements 8 and 9. Instructions are found on the last pages of this document. To complete the at-home work, scouts will need to go outdoors for several hours, have access to the internet and keep a reptile or amphibian for at least 30 days or visit an institution with display animals once a week for three weeks. Each requirement is checked off individually and must be earned. Any scout not participating in a requirement activity will not be given credit for the requirement. Workbooks with moderate writing will be used to track completion. BSA recommends that scouts read the merit badge booklet, but purchasing the booklet is not required for this class.

Requirement 8

Observing Reptiles and Amphibians:

Option A:

Maintain one or more reptiles or amphibians for at least a month. Record food accepted, eating methods, changes in coloration, shedding of skins, and general habits; or keep the eggs of a reptile from the time of laying until hatching; or keep the eggs of an amphibian from the time of laying until their transformation into tadpoles (frogs) or larvae (salamanders). Whichever you chose, keep records of and report to your counselor how you cared for your animal/eggs/larvae to include lighting, habitat, temperature and humidity maintenance, and any veterinary care requirements.

Caring for a living creature is a big responsibility. If scouts are not going to read about the animal they wish to keep *prior to getting it*, then they should choose option B for this activity. The individuals working at pet store often do not know the full requirements for caring for exotic animals, so they should not serve as your main resource for information. The number one killer of captive reptiles and amphibians is lack of knowledge and proper research before purchasing a reptile or amphibian.

What to consider before purchasing/selecting your animal:

This animal is cold-blooded – what are its lighting/heating requirements?

What is the temperament of this animal? Is it skittish? Aggressive? Will it grow to be aggressive over time?

How large will this animal grow to be? What size container will it need as an adult?

What are the dietary needs of this animal?

Does this animal need a vitamin supplement with its food?

What is the life-span of this animal? Will I keep this animal for life or do I have a plan for it at the end of the 30 days? **Animals bought in a pet store should NEVER be released into the wild.**

Animals that might work for this activity are:

Corn snakes, ball pythons, bearded dragons, Common anoles, leopard geckos, fire bellied toads, American bullfrog tadpoles, wild caught tadpoles (if they are released into the same location they were found in)

Animals that you should absolutely NOT get for this activity are:

Anything toxic (highly toxic toads, venomous snakes), snakes and lizards that will grow much longer than they are in the pet store (red-tail boa constrictors, Burmese pythons, any iguanas), animals with highly specialized environments that are hard to maintain (chameleons, excessively large frogs), animals that are known for their aggressive temperament (almost any lizard, especially monitors), long-lived animals if you are not prepared to keep them for upwards of 80 years sometimes (Russian tortoises and red-footed tortoises live 50+ years, iguanas can live for 20 years)

Option B:

Choose a reptile or amphibian that you can observe at a local zoo, aquarium, nature center, or other such exhibit (such as your classroom or school). Study the specimen weekly for a period of three months. At each visit, sketch the specimen in its captive habitat and note any changes in its coloration, shedding of skins, and general habits and behavior. Whichever you chose, keep records of and report to your counselor how you cared for your animal/eggs/larvae to include lighting, habitat, temperature and humidity maintenance, and any veterinary care requirements.

Find out, either from information you locate on your own or by talking to the caretaker, what this species eats and what are its native habitat and home range, preferred climate, average life expectancy, and natural predators. Also identify any human caused threats to its population and any laws that protect the species and its habitat. After the observation period, share what you have learned with your counselor.

We will be observing animals on display at the museum to give one example of a specimen scouts are welcome to keep track of. If families have a membership to HMNS, then scouts are able to enter this part of the museum at no additional cost to make their weekly visits. Alternately, this activity might easily be done if a fellow scout or school teacher has a reptile/amphibian of their own.

Reptile and Amphibian Observation Record

Requirement 8 Option A

Type of Reptile or Amphibian _____

Natural Habitat _____

Artificial Habitat _____

Artificial Habitat Contents _____

Observation Chart

Use these codes to keep track of your animal's daily activity for 30 days if you are keeping the animal at home or once a week for three months, if you are observing it at a facility.

Types of food – Some animals such as snakes may only be fed one type of food.

F1=_____ F2=_____ F3=_____

SH=shed skin R=resting A=active CC=color change B=buried

BK=basking D=drinking S=soaking

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	24
26	27	28	29	30

Requirement 8 Option b Study the specimen weekly for a period of three months. Make a copy of sheet for each visit.

Type of Reptile or Amphibian _____

Natural Habitat _____

Artificial Habitat _____

Artificial Habitat Contents _____

Observation Chart

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Types of food – Some animals such as snakes may only be fed one type of food.

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Date	Observations

Requirement 9

Finding Reptiles and Amphibians in the Wild

Requirement 9 has three options, but only two of them must be done.

Option A: Identifying frogs

This web site lets you listen to frog calls

<https://www.pwrc.usgs.gov/Frogquiz/index.cfm?fuseaction=main.lookup>

The most common frogs in our area are the Gulf Coast toad, American bullfrog, green tree frog, leopard frog, cricket frog, and spring peeper. To learn the calls of these frogs, select them in the common name box on the frog website. Remember frogs love water, so it will help to go to a wetland area like the Armand Bayou Nature Center or Brazos Bend State Park. The most important thing to remember is that frogs usually come out and call during spring rain shows. Take notes of the frogs you hear and locate.

Option B: Identifying by Sight

Finding eight reptiles or amphibians in Texas is easier than it sounds. We have 214 reptiles and 71 amphibians – more than any other state! Use the chart on the next page to record your sightings. If you have ever been out in the wild and spotted a reptile or amphibian go ahead and record it as long as you can accurately remember the information. Animals must be in the wild to count, you can't go to the zoo or a pet store. There are many reptiles and amphibians around your house. Look for geckos coming out where you leave lights on at night and the green anoles on fences in the sun.

This is an easy to use reference with common name, region map, and picture in lists.

<http://www.herpssoftexas.org/>

Option C: Give a Talk

This can be done after you've been through the class so you know more to talk about. Ask your scout leaders if you can do a presentation to a group of other scouts. Identify at night three kinds of toads or frogs by their voices. Imitate the song of each for your counselor. Stalk each with a flashlight and discover how each sings and from where.

Animal Identification Record

Common Name _____

Scientific Name _____

- Location (Smith Bayou, 100 North St. Houston) _____
- Habitat (grassy, pine forest, creek in forest) _____
- Time of sighting _____

Common Name _____

Scientific Name _____

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- Habitat (grassy, pine forest, creek in forest) _____

Time of sighting _____